# silex
### t e c h n o l o g y

## SX-200 and SX-215

# Print Servers

- Enterprise 10/100 Print Servers
- Connect USB 2.0 High Speed and/or Parallel Port Printers to the network or wireless network
- 802.11a/b/g Wireless LAN models
- Robust security including WEP, WPA, WPA2, EAP-LEAP, EAP-PEAP, EAP-FAST, EAP-TLS, EAP-TTLS

### Easily share a USB printer and/or a parallel printer on an Ethernet or wireless network

The SX-200 and SX-215 print servers provide a simple way for multiple users to share a parallel and/or a USB printer on a wired or wireless local area network with high performance and the industry's most robust enterprise security.

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**High Performance**
With the innovative SX-200 and SX-215 print servers, you can take advantage of your printer's maximum speeds. These products increase user productivity by shortening print waiting times, and the high performance architecture also reduces network congestion because the print jobs move out of the printer queue and off the network quicker.

**Wireless Flexibility**
Both the SX-200 and SX-215 are available in models with 802.11 (Wi-Fi) wireless connectivity. This gives you the advantage of flexible printer deployment for situations in which running cables is impractical or too expensive, or where the printer must be frequently moved. The SX-200 features a dual band tri-mode 802.11a/b/g radio, while the SX-215 supports 802.11b/g.

**Secure**
A major advantage of the SX-200 and SX-215 print servers is enterprise class security. The wired models supports the most robust 802.1x Extensible Authentication Protocol (EAP) with TLS, TTLS, and PEAP support, while the wireless models add WPA and WPA2 encryption security with 802.1x and TLS, TTLS, PEAP, LEAP, EAP-FAST authentication. All models also support access control lists, complete protocol and application enable/disable control, read and write configuration passwords, and SNMP community name configuration. These capabilities allow the SX-200 and SX-215 to be used on virtually any enterprise class network.

**Easy to Use**
The SX-200 and SX-215 are easy to use with many different options for configuration and management. The included ExtendView Windows utility includes wizards for setup, configuration and management of multiple Silex print servers at the same time. The SX-200 built in web browser interface allows monitoring and configuration from any computer with a standard web browser, and Update IP utility lets you download firmware updates into multiple print servers simultaneously.

**Versatile**
The SX-200 and SX-215 allow you to print from multiple computer and network operating systems concurrently, including Windows, UNIX, Linux, Solaris, Netware, Mac OS, OS/2, DEC LAT, and more. On the USB models, the USB 2.0 Hi-Speed port connects

virtually any USB printer including those with USB 1.1, USB 2.0 Full Speed, and USB 2.0 Hi-Speed connections. On the parallel port models, IEEE1284 parallel port is compatible with virtually any parallel printer port mode, including High Speed ECP with bi-directional communication.

The SX-200 and SX-215 include a printer mounting kit and a desktop mounting kit. The USB models also include a USB cable.

**Need More Info?**
For additional information, please visit the Silex website at www.silexamerica.com, or give us a call at 866-765-8761 (U.S. toll-free) or 801-748-1199.

## Technical Specifications:

**Electrical:**
- Input power: 1A@12VDC**I/O:**
- USB 2.0 Hi-Speed (compatible with USB speed and Hi-Speed and 2.0 full-speed)
- 1284-compatible bi-directional parallel port
- 10baseT/100baseTX Auto-Sensing Ethernet
- 802.11a/b/g Wireless LAN (with Wireless version only)

**Environmental**
*Regulatory:*
- SX-200: FCC Class B, CE, RoHS
- `SX-215: FCC Class A

*Temperature:*
- Operating temperature: 0º to 50º C
- Storage temperature: -20º to 60º C
- Maximum temperature change per hour: 20º C

*Altitude:*
- Operating: 3.1 km
- Storage: 9.1km

*Relative Humidity:*
- Operating: 10% to 90% non-condensing (40 to 60% recommended)
- Storage: 10% to 90% non-condensing

**802.11 (Wireless Models Only)**
- Variable data rates up to 54 Mbps
- Frequency band: 2.4/5 GHz (5GHz on SX-200 only)
- WPA and WPA2 (personal and enterprise modes)
- 802.1x EAP with TTLS/LEAP/PEAP
- Wired equivalent privacy: 128-bit, 64-bit (compatible with 40-bit), none
- Range: 100 m
- Reverse PIN SMA L-type swivel dipole dual band antenna

**Network Ports:**
- Supports standard Ethernet/Fast Ethernet connections: twisted-pair
- RJ45 (10/100Base-T)
- 802.11a/b/g (SX-200 wireless) or 802.11b/g (SX-215 wireless)

**Protocols:**
*TCP/IP and Windows*
- Supports lpr/lpd network printing protocol
- Supports raw printer port (for example, Port 9100)
- Supports NetBIOS over IP and NetBEUI
- Supports telnet and ftp
- Supports SNMP MIB I & II
- Supports IPP protocol (Internet printing)
- Supports peer-to-peer printing (direct printing) via the Microsoft DLC,
- TCP/IP or IPX/SPX protocols with ExtendNet Connect

*EtherTalk Mode:*
- Supports Macintosh System 6.X, 7.X, 8.X, 9.X, MacOS 10.X
- Supports EtherTalk Phase 2
- Supports Apple LaserWriter driver 8.X and above (PostScript printer required)
- Supports PostScript-compatible laser printers
- Supports most HP, Epson, and Canon inkjet printers

*NetWare Mode:*
- Simultaneously supports Novell NetWare, NDS & NDPS
- Supports NDPS via Novellís Generic Gateway or HPís Printer Gateway
- Supports packet signatures, checksums and aliasing
- Supports dedicated print server and remote printer modes
- Supports encrypted passwords
- Supports up to eight file servers and up to 32 queues
- Supports automatic file server reattachment

**Print Server Management Tools:**
*Enterprise Management Tools*
- Supports PC-based SNMP applications (For example, HP OpenView, IBM NetView and Sun SunNet Manager)
- Supports Private MIB

*LAN Administration Tools*
- ExtendView Utilities – Silex utilities which provide simple configuration and management capabilities.
    - ExtendView also displays system, network and printer status information via SNMP traps

- **NetworkAlert Utilities** – Silex utilities that assist in managing network printers by proactively alerting you of printer problems via SNMP traps. Integrates into ExtendView for advanced diagnostic and configuration information.
- **XAdmin32, XAdmin** – Compatibility with legacy silex Print Server Administration utilities.
- **WebXAdmin** – Web Browser allows print server configuration and management HP JetAdmin and HP.
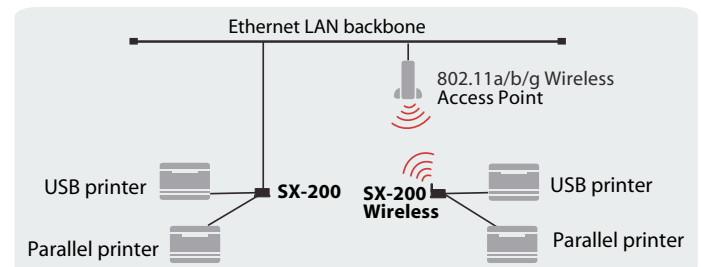- **Web JetAdmin** – allows print server configuration and management Novell ManageWise.

*User Printing Status and Monitoring*
- HP JetAdmin and Web JetAdmin for printer and print server status information
- WebXAdmin for printer and print server status information

**Other Features:**
- LEDs to indicate power-on, link, activity
- lpd-Plus virtual printer capability (allows complex user-defined setup and reset strings configurable on a per-service basis)
- Text-to-PostScript conversion on a per-service basis
- Programmable character string conversion
- IP security (ability to restrict access to print server based on IP address)
- Configurable TCP port numbers on a per-service basis
- IP address configuration via arp, rarp, DHCP, BOOTP, silex ExtendView, HP JetAdmin/Web JetAdmin, NetWare, and DEC MOP
- Automatic detection of NetWare frame type or frame type can be forced AppleTalk ìspoofingî for support of non-bidirectional PostScript printers
- AppleTalk binary printing (requires that printer supports the HP Tagged Binary Communications Protocol or can be forced into binary mode)
- Online HELP
- Sophisticated diagnostics, including protocol trace capability

## Networking Example:



Ethernet LAN backbone

802.11a/b/g Wireless Access Point

USB printer

**SX-200**

**SX-200 Wireless**

USB printer

Parallel printer

Parallel printer